

6ER5

High-Mu Triode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.18	amp

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^o</i>	
Grid to plate	0.38	0.36	μf
Grid to cathode, internal shield, and heater.	4.4	4.4	μf
Plate to cathode, internal shield, and heater.	3	4	μf
Grid to heater.	0.28 max.	0.28 max.	μf
Plate to cathode.	0.24	0.2	μf
Cathode to grid	3.1	3.1	μf
Heater to cathode	2.5	2.5	μf

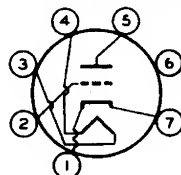
Characteristics, Class A₁ Amplifier:

Plate Voltage	200	volts
Grid Voltage.	-1.2	volts
Amplification Factor.	80	
Plate Resistance (Approx.).	8000	ohms
Transconductance.	10500	μmhos
Plate Current	10	ma
Grid Voltage (Approx.) for transconductance (μmhos) = 500.	-3.8	volts
Grid Voltage (Approx.) for transconductance (μmhos) = 100.	-5.6	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip).	1-1/2" $\pm$ 3/32"
Diameter.	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb.	T5-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No. E7-1)
Basing Designation for BOTTOM VIEW.	7FP

Pin 1 - Cathode
Pin 2 - Grid
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate
Pin 6 - Internal
Shield
Pin 7 - Cathode

← Indicates a change.



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
8-60

6ER5

AMPLIFIER — Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	250 max.	volts
GRID VOLTAGE:		
Negative-bias value	50 max.	volts
CATHODE CURRENT	20 max.	ma
PLATE DISSIPATION	2.2 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	100 max.	volts
Heater positive with respect to cathode	100 max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance	1 max.	megohm
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- With external shield JEDEC No.316 connected to cathode except as noted.
- With external shield JEDEC No.316 connected to ground.

→ Indicates a change.

